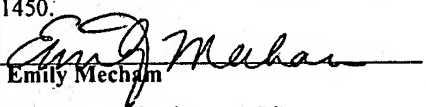


PATENT APPLICATION
Attorney Docket No.: 22390.CIP

IN THE UNITED STATES PATENT & TRADEMARKS OFFICE

<p>APPLICANT: Chien-Min Sung</p> <p>SERIAL NO.: 10/775,042</p> <p>FILED: 2/6/04</p> <p>FOR: HIGH PRESSURE CRYSTAL GROWTH APPARATUSES AND ASSOCIATED METHODS</p> <p>ATTORNEY DOCKET NO. 22390.CIP</p>	<p>INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97</p> <p>CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8</p> <p>DATE OF DEPOSIT: <u>5/5/04</u></p> <p>I hereby certify that this paper or fee (along with any paper or fee referred to as being attached or enclosed) is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated above and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.</p> <p> Emily Mecham</p>
--	--

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir/Madam:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). Applicant respectfully submits that this Information Disclosure Statement is filed pursuant to:

- ☒ 37 C.F.R. § 1.97 (b)(1) or (3), within three months of the filing date of the application, or before a first office action on the merits, whichever occurs last;
- ☐ 37 C.F.R. § 1.97 (c), after a first office action on the merits, but before a Final Office Action or a Notice of Allowance, whichever occurs first, and is accompanied by either 1) a statement in accordance with 37 C.F.R. § 1.97(e), or 2) the fee set forth in § 1.17(p); or
- ☐ 37 C.F.R. § 1.97 (d), after a Final Office Action or Notice of Allowance, whichever occurs first, but on or before payment of the issue fee, and is accompanied by both 1) a statement in accordance with 37 C.F.R. § 1.97(e), and 2) the fee set forth in § 1.17(p).

While no representation is made that any of these references may be "prior art" within the meaning of that term in accordance with 35 U.S.C. §§ 102 or 103, the enclosed list of references is disclosed so as to comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the references listed, together with any other references which may have been previously submitted or listed, are the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

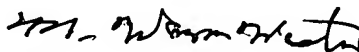
In accordance with 37 C.F.R. §§ 1.97 and 1.98, a copy of each listed reference (or relevant portion thereof) which was not previously submitted to, or cited by, the Patent Office is also enclosed.

For all listed references that are not either in the English language, or accompanied by a translation into English, a concise explanation of relevance as required under 37 C.F.R. § 1.98(a)(3) is enclosed attached to each.

Please charge any additional fees or credit any overpayment to Deposit Account No. 20-0100.

Dated this 5th day of May, 2004.

Respectfully submitted,



M. Wayne Western
Attorney for Applicant
Registration No. 22,788

THORPE NORTH & WESTERN, LLP
Customer No. 20,551
P.O. Box 1219
Sandy, Utah 84091-1219
Telephone: (801) 566-6633



MWW/DWO/ESE/em



PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF PRIOR ART CITED BY APPLICANT	ATTY. DOCKET NO. 22390.CIP	SERIAL NO. 10/775,042
	APPLICANT Chien-Min Sung	
	FILING DATE 2/6/04	GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A1	3,075,245	01/29/1963	F.P. Bundy			
	A2	3,297,407	01/10/1967	R.H. Wentorf, Jr.			
	A3	3,332,747	07/25/1967	F.P. Bundy			
	A4	4,034,066	07/05/1977	Strong et al.			
	A5	4,042,673	08/16/1977	Strong			
	A6	4,287,168	09/01/1981	Wentorf, Jr. et al.			
	A7	4,322,396	03/30/1982	Strong			
	A8	4,340,576	07/20/1982	Strong			
	A9	4,547,257	10/15/1985	Iizuka et al.			
	A10	4,632,817	12/30/1986	Yazu et al.			
	A11	4,740,147	04/26/1988	Asari et al.			
	A12	4,797,241	01/10/1989	Peterson et al.			
	A13	4,836,881	06/06/1989	Satoh, et al.			
	A14	5,273,730	12/28/1993	Yoshida, et al.			
	A15	5,980,852	11/09/1999	Burns, et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	A16						
	A17						
	A18						

OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)

	A19		
	A20		
EXAMINER		DATE CONSIDERED	
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.			

THORPE
NORTH &
WESTERN L.L.P.
SINCE 1979
THE TEAM APPROACH TO PREMIER PERFORMANCE®

INTELLECTUAL PROPERTY LAW

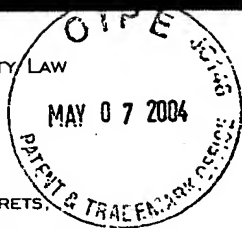
PATENTS, TRADEMARKS,

COPYRIGHTS, UNFAIR

COMPETITION, TRADE SECRETS,

LITIGATION, DISPUTE RESOLUTION

AND RELATED MATTERS



SALT LAKE AREA OFFICE
8180 SOUTH 700 EAST, SUITE 200
SANDY, UTAH 84070-0562
801.566.6633
801.566.0750 FAX
PATLAW@TNW.COM
WWW.TNW.COM

U.S. MAILING ADDRESS
P.O. Box 1219
SANDY, UTAH 84091-1219

LAS VEGAS AREA OFFICE
OF COUNSEL: NEIL J. BELLER †
7408 WEST SAHARA
LAS VEGAS, NEVADA 89117
702.368.7767
† ADMITTED IN NEVADA

VAUGHN W. NORTH
M. WAYNE WESTERN
GARRON M. HOBSON
PETER M. DE JONGE
CLIFTON W. THOMPSON
STEVE M. PERRY
WEILI CHENG, PH.D.
DAVID R. MCKINNEY, PE.
GARY P. OAKESON
DAVID W. OSBORNE
DAVID L. STOTT
JASON R. JONES
PAUL C. OESTREICH, M.S.
ERIK S. ERICKSEN, M.S.
REGISTERED PATENT ATTORNEYS
NATHAN S. WINESETT
OF COUNSEL

BRYAN K. HANKS
PATENT AGENT

ALEX HAYMOND, B.S. EE
TODD B. ALDER, PH.D.
JONATHAN M. BENNS, PH.D.
AARON M. SMITH, B.S. EE
WILLIAM T. RALSTON, PH.D. EE
TECHNICAL CONSULTANTS

CALVIN E. THORPE
(1938-1999)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Re: U.S. Patent Application No. 10/775,042, Filed 2/6/04
Inventor(s): Chien-Min Sung
**HIGH PRESSURE CRYSTAL GROWTH APPARATUSES AND
ASSOCIATED METHODS**
Attorney Docket No. 22390.CIP

Dear Sir/Madam:

Transmitted herewith for filing and pursuant to 37 C.F.R. §§ 1.56 and 1.97 is an Information Disclosure Statement.

Enclosed also are the following designated documents, as required under 37 C.F.R. §§ 1.97 and 1.98:

- ☒ Form PTO-1449 list of 15 (fifteen) reference(s) submitted for consideration.
- ☐ Legible copies of the listed references or their relevant portions.
- ☒ Copies of U.S. patents and/or publications are not included pursuant to the Official Gazette Notice, dated Aug. 5, 2003, waiving the requirement of 37 C.F.R. 1.98(a)(2)(i).
- ☐ All English translations of each non-English reference, if any, within the possession, custody, control or availability of anyone designated in 37 C.F.R. § 1.56(c) (see 37 C.F.R. § 1.98(c)).

The following are included within the Information Disclosure Statement if applicable and as required under 37 C.F.R. § 1.98:

- ☐ Concise explanation of relevance of each reference not in English and unaccompanied by an English translation.
- ☐ Statement that certain listed references not enclosed are substantially cumulative of an enclosed reference.
- ☐ Statement that certain listed references not enclosed were previously cited by or submitted to the Office in the identified prior application which is relied upon for an earlier filing date under 35 U.S.C. § 120.

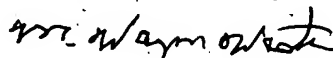
In order to secure consideration of the items designated above, one or more of the following, if required, is also enclosed:

- ☐ Statement under 37 C.F.R. § 1.97(e)(1) or (2).
- ☐ Check No. _____ in the amount of \$180.00 (amount in § 1.17(p)) constituting the submission fee set forth in 37 C.F.R. § 1.17(p).

In the event that 37 C.F.R. § 1.97(c) applies and the Examiner is not satisfied that the Statement meets the requirements of 37 C.F.R. § 1.97(e), or in any other event remediable by a fee, please credit any over payment or charge any additional fees to Deposit Account No. 20-0100 of the undersigned.

Dated this 5th day of May, 2004.

Respectfully submitted,



M. Wayne Western
Attorney for Applicant
Registration No. 22,788

THORPE NORTH & WESTERN, LLP
Customer No. 20,551
P.O. Box 1219
Sandy, Utah 84091-1219
Telephone: (801) 566-6633



MWW/DWO/ESE/em
Enclosures